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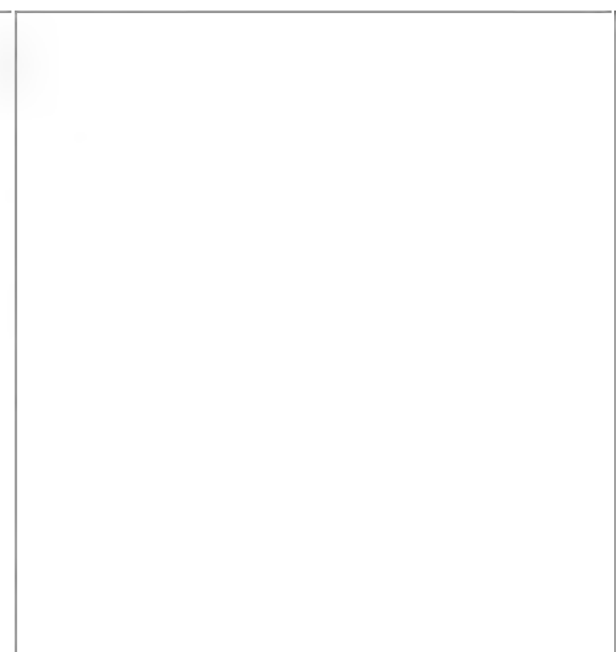
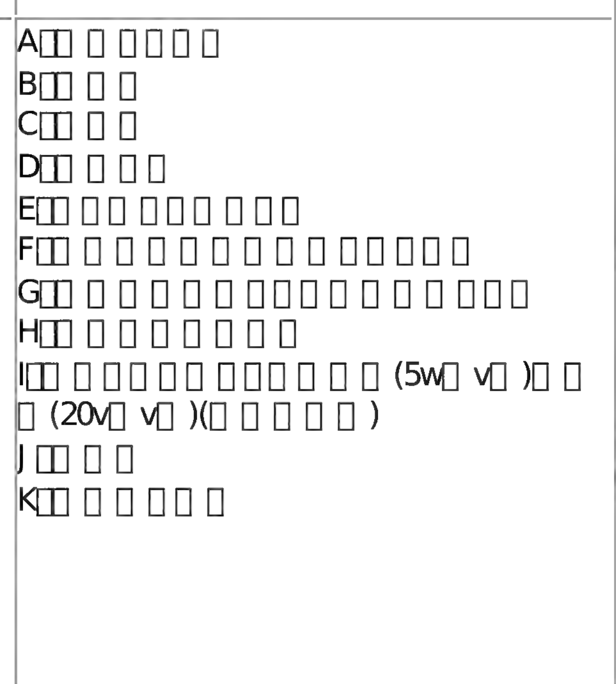
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2 □□□□□

(1) □□□□

□□ 500ml□□ 20□ 30ml□□□(□□□□□□□□□□□□□□□□□□□□)

(2) □□□□□□□

□□ 5□ 10ml□□□

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(a) □□□□□

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(b) □□□

□□ 3mm□□□ 40□ 150cm□□□□□□□□□□□□□□□ 130□ 180℃□□□□□

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4 □□□□

(1) [illegible] 200ml [illegible] ([illegible] 500ml) [illegible]
[illegible] (2mol [illegible] l) [illegible] ([illegible] 1) [illegible] 50ml [illegible] 2 [illegible]
[illegible] ([illegible]) [illegible] ([illegible] 500ml) [illegible]
[illegible] 50ml [illegible] 2 [illegible]
[illegible] (20w [illegible] v [illegible]) 20ml [illegible]
[illegible] 1 [illegible] ([illegible] 2) [illegible]

(2) [illegible] L— [illegible] 8ml [illegible] 2 [illegible]
[illegible] ([illegible]) [illegible] ([illegible] 20 [illegible] 30ml)
[illegible] 2ml [illegible] 5ml [illegible] 2 [illegible]
[illegible] ([illegible] 3) [illegible]

(3) [illegible] ([illegible] 4) [illegible]
[illegible]
[illegible] ([illegible] 5) [illegible]

(4) [illegible]
[illegible] 1ml [illegible]
[illegible] L— [illegible] 1ml [illegible] 2 [illegible]
[illegible]

(5) (3) [illegible] 5 [illegible]
[illegible] 200ml [illegible]
[illegible]

[illegible] (mg [illegible] l) [illegible] (a − b) × 1,000 [illegible] (ml)

[illegible] a [illegible] b [illegible]

a [illegible] (mg)

b [illegible] (mg)

([illegible] 1) [illegible] (2mol [illegible] l) [illegible]
[illegible] (l [illegible]) [illegible] 100mg [illegible]
[illegible] (1 [illegible] 5) [illegible] 2 [illegible] 3 [illegible]

([illegible] 2) [illegible]

([illegible] 3) [illegible] ([illegible]) [illegible]

([illegible] 4) [illegible]

([illegible] 5) [illegible]

5 [illegible]

[illegible] ([illegible] 20 [illegible] 30ml) [illegible] L— [illegible] 8ml [illegible]
[illegible]

[illegible] 4[illegible](2)[illegible] L—[illegible] 4[illegible](3)[illegible]

[illegible]

[illegible]

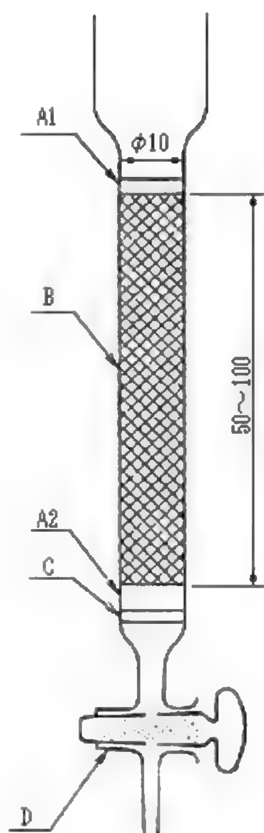
1 [illegible] 4[illegible] 4[illegible](5)[illegible]

2 [illegible]

3 [illegible]0.0005mg[illegible]l[illegible]

4 [illegible]

[illegible] 1 [illegible]



A_1[illegible]A_2[illegible]

B[illegible]

C[illegible]

D[illegible]

[illegible] mm

[illegible]

PCB[illegible]

1 [illegible]

(1) [illegible]

[illegible](300ml[illegible]3ml[illegible]10μl[illegible]) [illegible]PCB[illegible]

(2) [illegible]

[illegible](300ml[illegible]3ml[illegible]10μl[illegible])

PCB

(3) (95v v)

(300ml 3ml 10μl)

PCB

(4)

(5)

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70g (1l 100ml

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25ml

10μl PCB

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PCB 10mm

130℃ 18 30

PCB 10μl

PCB

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100g 50ml

25ml

10μl PCB

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((300ml 3ml 10μl

) PCB)170ml 30ml

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0.5g (95v v)50ml 100ml

(12) (4w v)

4g 100ml

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PCB KC—300 KC—400 KC—500 KC—600 1 1 1

1 1l 0.01 1mg

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CB_2(□)□$K\times H_2$

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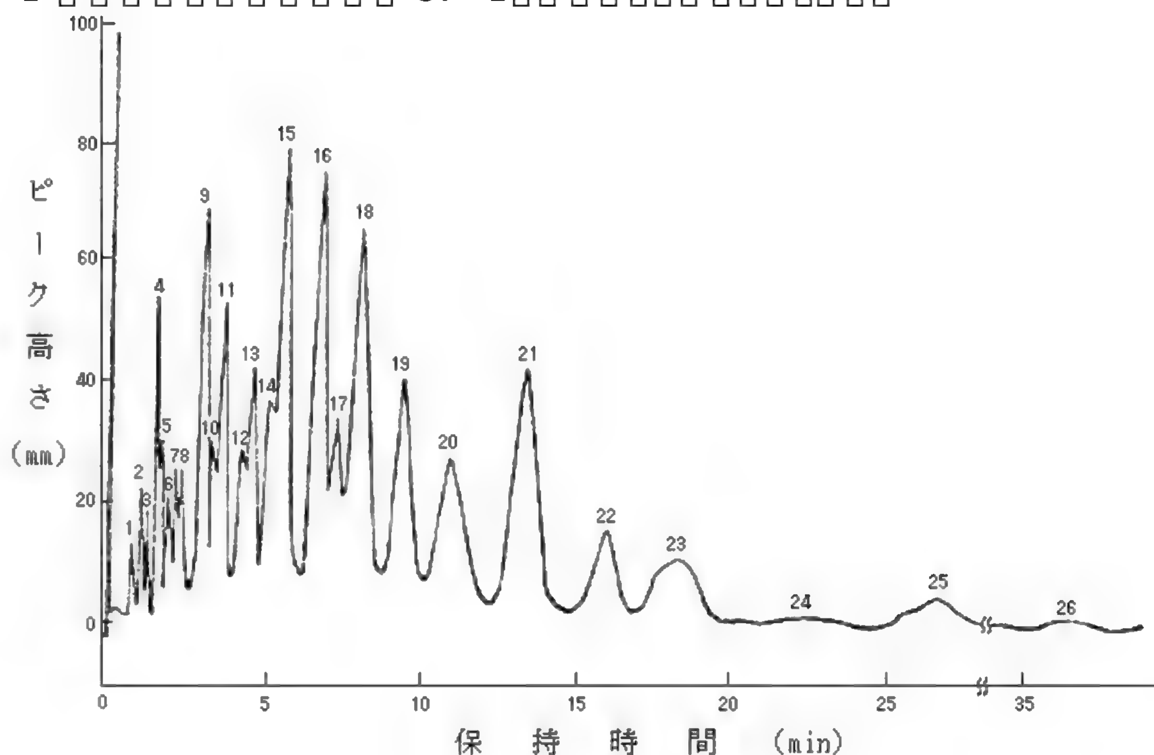
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CB_0(□)	1.67	5.78	2.68	7.57	5.23	7.88	4.83	3.30	10.68	2.37	5.70	3.16	4.20	1.24

15	16(□4)	17	18	19	20	21	22	23	24	25	26
6.44	6.16	1.68	4.45	3.45	3.15	3.47	1.27	1.54	0.29	0.71	0.21

Σ CB_0(□)□99.11

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□□□□	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CB_0(□)	1.69	6.00	3.17	6.60	2.74	1.35	8.62	4.86	2.54	2.09	8.65	7.05	0.99	3.18

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
	5.42	6.35	4.28	4.00	4.75	2.82	0.23	2.26	1.57	3.30	0.08	2.95	0.28	0.71	0.15	

Σ CB_0(□)□ 98.68

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(10) □□□□□□□□ (1mg□ ml)

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□□ 80□ 150μm □□□□ 130℃□ 16□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

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[illegible] 150[illegible]250μm [illegible] 130℃ [illegible] 16 [illegible]
[illegible]

(c) [illegible]

[illegible] 8g [illegible]
[illegible] ([illegible]
[illegible])5g [illegible]

(7) [illegible]

(a) [illegible]

[illegible] 0.2[illegible]0.7mm[illegible]10[illegible]30m [illegible]
[illegible] 0.1[illegible]1.0μm [illegible]
[illegible]

(b) [illegible]

[illegible] (EI[illegible]) [illegible]
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(c) [illegible]

[illegible] (99.9999vol[illegible]) [illegible] 20[illegible]40cm [illegible]

(d) [illegible]

[illegible] 200[illegible]270℃ [illegible]

(e) [illegible]

[illegible] 150℃ [illegible]

(f) [illegible]

[illegible] 50[illegible]60℃[illegible]2[illegible]50(60)[illegible]260℃ [illegible]
2[illegible]20℃ [illegible] 40[illegible]50℃[illegible]2[illegible]
40(50)[illegible]280℃ [illegible] 2[illegible]20℃ [illegible]

(8) [illegible]

(9) [illegible]

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3 [illegible]

(1) [illegible]

(a) [illegible]

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([illegible]) [illegible] 1l [illegible] ([illegible]) [illegible] ([illegible]) [illegible]

(b) [illegible] ([illegible])

([illegible]) [illegible] 200ml [illegible] 10[illegible]20ml [illegible]

([illegible]) [illegible] 10ml [illegible] 10 [illegible]
[illegible]

([illegible]) [illegible] 3ml [illegible]

([illegible]) [illegible] 2ml [illegible]

([illegible]) [illegible] ([illegible]) [illegible] 2ml [illegible] 50ml [illegible] 6[illegible] 7ml [illegible]

([illegible]) [illegible] 2ml [illegible]

([illegible]) [illegible] 200ml [illegible] ([illegible]) [illegible] ([illegible]) [illegible] ([illegible] ([illegible]) [illegible] ([illegible]) [illegible]) [illegible]

(2) [illegible]

[illegible] (3) [illegible]

[illegible]

(a) [illegible]

([illegible]) [illegible] (1)[illegible] (a)[illegible] ([illegible]) [illegible] 1ml [illegible] (1)[illegible] (b)[illegible] ([illegible]) [illegible] 1ml [illegible]

([illegible]) [illegible] 100ml [illegible] 35vol[illegible] 100ml [illegible] 1ml [illegible]

(b) [illegible]

([illegible]) [illegible] (1)[illegible] (a)[illegible] ([illegible]) [illegible] 1ml [illegible] (1)[illegible] (b)[illegible] ([illegible]) [illegible] 1ml [illegible]

([illegible]) [illegible] 80ml [illegible] 35vol[illegible] 100ml [illegible] 1ml [illegible] 100ml [illegible] 1ml [illegible]

(c) [illegible] 40°C [illegible] (a)[illegible] (b)[illegible] 35vol[illegible] (b)[illegible] 10ml [illegible] 100ml [illegible] 1ml [illegible]

(d) [illegible] (1)[illegible] (a)[illegible] ([illegible]) [illegible] (1)[illegible] (b)[illegible] ([illegible]) [illegible] (a)[illegible] (c)[illegible]

(3) [illegible]

(a) [illegible] 1μl [illegible] ([illegible] 201[illegible] 186 [illegible] 173[illegible] 100[illegible] 72 [illegible] 125) [illegible]

(b) (2)[illegible] (c)[illegible] ([illegible] (1)[illegible] (a)[illegible] ([illegible]) [illegible] (1)[illegible] (b)[illegible] ([illegible]) [illegible]) 1μl [illegible] (a)[illegible]

(c) [illegible] 4 [illegible]

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(9) □□□□□□□□(0.2mg□ml)

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(10) □□□□□□□□□□□(1mg□ml)

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(b) □□□□□□(□□□□□□□ 20μg□ml)(□□□□□□□□□□□□□□)

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□□ 80□150μm□□□□ 130℃□ 16□□

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□□ 0.2□□□ 0.7mm□□□ 10□30m□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 0.1□1.0μm□□□□□□□□□□□□□□□□□□□□□□□□□□□

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4 □□□□□□

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(2) [illegible]

[illegible]

[illegible]

[illegible]

1 [illegible]

(1) [illegible]

[illegible] K0557 [illegible] A2 [illegible] A3 [illegible]

(2) [illegible] (100mgF$^-$ [illegible] l)

[illegible] K8005 [illegible] 500℃ [illegible] 1 [illegible] 0.221g [illegible] 1000ml [illegible] ([illegible])

(3) [illegible] (5mgF$^-$ [illegible] l)

[illegible] (100mgF$^-$ [illegible] l)5ml [illegible] 100ml [illegible]

(4) [illegible] (0.5mgF$^-$ [illegible] l)

[illegible] (100mgF$^-$ [illegible] l)5ml [illegible] 1000ml [illegible]

(5) [illegible]

(6) [illegible]

2 [illegible]

(1) [illegible] ([illegible] 1)

[illegible]

(a) 0.1mg [illegible] l [illegible]

(b) [illegible]

(c) [illegible]

(d) [illegible]

([illegible] 1) [illegible]

3 [illegible]

(1) [illegible] ([illegible] 2) [illegible] ([illegible] 1 [illegible] 2ml [illegible]) [illegible] ([illegible] 3) [illegible]

(2) [illegible] (50 [illegible] 200μ l [illegible]) [illegible]

(3) [illegible]

(4) [illegible] 4 [illegible]

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0.005 200ml

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20ml 40ml

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10ml 20ml

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(a)

0.25mm 30

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19 20

(7) 10mg

50 90ml 100ml ml

100ml 19 21

17

18

[illegible]

[illegible] 19 [illegible] −20℃ [illegible]

[illegible] 20 [illegible]

[illegible] 21 [illegible]

[illegible]

(1) [illegible]

40 [illegible] 250ml [illegible] 0557 [illegible] 105± [illegible] ℃ [illegible] 22 [illegible]

(2) [illegible] 23 [illegible] 24 [illegible]

(a) [illegible]

0.5 [illegible] 25ml [illegible] 0557 [illegible] 105± [illegible] ℃ [illegible]

(b) [illegible]

[illegible] 60℃ [illegible]

(c) [illegible]

[illegible] 0.5 [illegible] mm [illegible] 50 [illegible] 305mm [illegible]

(d) [illegible]

[illegible] − [illegible] − [illegible] − [illegible] 177 [illegible] 250μ m [illegible] 250 [illegible] 500μ m [illegible] 250 [illegible] 500μ m [illegible] 25 [illegible]

(e) [illegible]

[illegible] 26 [illegible] 20 [illegible] 90ml [illegible] 30 [illegible] 60 [illegible] 27 [illegible]

(f) [illegible]

[illegible] 40℃ [illegible] 180 [illegible] 280℃ [illegible]

(g) [illegible]

[illegible] 99.9999vol [illegible] 1107 [illegible] 28 [illegible] 20 [illegible] 60ml [illegible]

(h) [illegible] 29 [illegible]

[illegible] 0.53mm [illegible] 0.32 [illegible] 0.53mm [illegible] −30℃ [illegible] 200℃ [illegible]

(3) [illegible] 30 [illegible]

(a) [illegible]

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[illegible] ℃ [illegible] 32 [illegible]

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(1) [illegible]

[illegible] 0.5 [illegible] 25ml [illegible] ml [illegible] − [illegible] − [illegible] 20μg [illegible] 33 [illegible]

(2) [illegible]

[illegible] (1) [illegible] 33 [illegible] 34 [illegible]

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[illegible] − [illegible] 50μg [illegible] − [illegible] − [illegible] 20μg [illegible] 33 [illegible] 35 [illegible]

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(a) [illegible] 40℃ [illegible]

(b) [illegible] 36 [illegible] 36 [illegible]

(c) [illegible] − [illegible] 88 [illegible] 58 [illegible] − [illegible] − [illegible] 96 [illegible] 64 [illegible] 37 [illegible]

(d) [illegible]

(e) [illegible] − [illegible] − [illegible] − [illegible] − [illegible] − [illegible] − [illegible] 38 [illegible]

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[illegible] 33 [illegible]

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(f) □□□

25□70℃□□□□□□□□□□□□±0.5℃□□□□□30□120□□□□□□□□

(g) □□□□□□□□□

□□20□5000μl□□□□□□□□□□□□□□□□□□□□42□

(3) □□□□□□□□□□□□□□□43□

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(c) □□□

(d) [illegible] 25 [illegible] 70℃ [illegible] 30 [illegible] 120 [illegible]

(2) [illegible]

[illegible] (1) [illegible] 47 [illegible]

(3) [illegible]

[illegible] − [illegible] 50μ g [illegible] − [illegible] − [illegible] 20μ g [illegible] 46 [illegible] 48 [illegible]

(4) [illegible]

(a) [illegible] 49 [illegible] (3) [illegible] (a) [illegible] ([illegible]) [illegible]

(b) [illegible] (4) [illegible] (c) [illegible]

(c) [illegible]

(d) [illegible] − [illegible] (4) [illegible] (e) [illegible]

[illegible] 45 [illegible]

[illegible] 46 [illegible] 15 [illegible] 60 [illegible]

[illegible] 47 [illegible]

[illegible] 48 [illegible] − [illegible] 70 [illegible] 120 [illegible]

[illegible] 49 [illegible] 30℃ [illegible]

[illegible]

[illegible] − [illegible] 500μ g [illegible] ml [illegible] − [illegible]

[illegible] (1) [illegible] − [illegible] 50μ g [illegible] − [illegible] − [illegible] 20μ g [illegible]

[illegible] − [illegible] − [illegible] − [illegible] − [illegible]

[illegible]

[illegible] 0.125 [illegible] 5.1 [illegible] − [illegible] − [illegible] − [illegible] − [illegible]

[illegible]

[illegible] 0125 [illegible] 5.2 [illegible] − [illegible] − [illegible] − [illegible]

[illegible] μg [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(1) [illegible]

[illegible] 0211 [illegible]

(2) [illegible]

[illegible] 8891 [illegible]

(3) [illegible] mol [illegible]

[illegible] 9901 [illegible]

(4) [illegible]

[illegible] 8359 [illegible]

(5) [illegible] 0.1mol [illegible]

[illegible] 7.708g [illegible] 900ml [illegible] pH [illegible] 5.5 [illegible]

(6) [illegible] 0.5mol [illegible]

[illegible] 38.54g [illegible] 900ml [illegible] pH [illegible] 5.5 [illegible]

(7) [illegible] 5.0mol [illegible]

[illegible] 385.4g [illegible] 900ml [illegible] pH [illegible] 5.5 [illegible]

(8) [illegible]

[illegible] 8085 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(1) [illegible]

[illegible] 20ml [illegible]

(2) [illegible]

[illegible] ml [illegible] mol [illegible] 50ml [illegible] 50ml [illegible]

[illegible] 0.1mol [illegible] 50ml [illegible] 50 [illegible] 100ml [illegible]

[illegible] 0094 [illegible] 3.2 [illegible]

[illegible] 200−400 [illegible] g [illegible] ml [illegible]

[illegible] mol [illegible] mol [illegible]

[illegible] 0.1mol [illegible] ml [illegible]

[illegible]

(1) [illegible] 5.5 [illegible]

(2) (1) [illegible] 5.0mol [illegible] 20ml [illegible]

(3) [illegible] pH [illegible] 5.5 [illegible] 50 [illegible] 100ml [illegible] 10 [illegible]

(4) 0.5mol [illegible] 50ml [illegible] 50ml [illegible]

(5) [illegible] mol [illegible] ml [illegible] ml [illegible]

(6) (5) [illegible] 20ml [illegible]

[illegible] 55.2 [illegible] 0.01 [illegible] 0.2μg [illegible] 55.3 [illegible] 0.2 [illegible] 40μg [illegible] 55.4 [illegible] 0.01 [illegible] 10μg [illegible]

[illegible] (1) [illegible] 0.1mol [illegible]

[illegible] 10 [illegible] 10 [illegible] 20ml [illegible]

[illegible]

[illegible]

[illegible]

[illegible] (SS) [illegible]

1 [illegible]

(1) [illegible]

(2) [illegible]

[illegible] 1μm [illegible] 24 [illegible] 55mm [illegible]

(3) [illegible]

105 [illegible] 110℃ [illegible]

2 [illegible]

(1) [illegible]

105□110℃□□□□□□2□□□□□□□□□□□□□□□□□□□□□□□□□□□

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(2) 1mol□l□□□□2mol□l□□

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(3) □□□□□□□□

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(4) □□□□□□□□□□(0.1mol□l)

□□□□□□□□7.7g□□□□□□□□□□□□1l□□□

(5) □□□□□□□□□□(0.5mol□l)

□□□□□□□□38.5g□□□□□□□□□□□□1l□□□

(6) □□□□□□

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(□ 1) □□□
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2 □□(□ 3)

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3 □□

(1) □□ 1l□□□□□□(□ 5)□□□ 5.5□□□□□□□□□□

(2) (1)□□□□□□□□□ 7.7g□□□□□□(□ 6)□□□□□□□□□□

(3) □□□□□□□□□□□□ pH□ 5.6□□□□□□□□□□□□□□□□□□□□□□
□□□ 50□ 100ml□□(□ 7)□□□□□□□

(4) 0.5mol□ l□□□□□□□□□□ 50ml□□□□□□□□□□□□□□□□□□

(5) □□□□□□□□□□□ 1mol□ l□□ 5ml□ 2□□□□□□□□□□□□□□□□□
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11 [illegible] (1) [illegible] (e) [illegible] (h) [illegible]

12 [illegible]

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14 [illegible]

15 [illegible] ±20 [illegible]

16 [illegible] 50 [illegible] 120 [illegible]

17 [illegible] μl [illegible]

[illegible]

[illegible] μl [illegible]

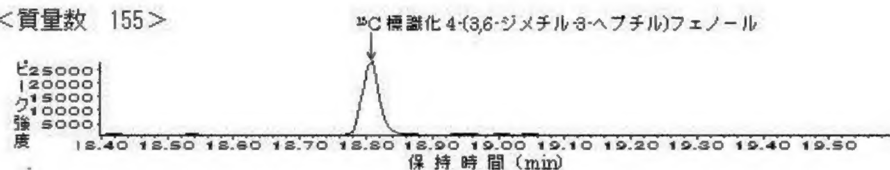
[illegible]

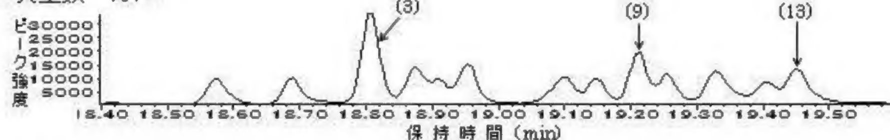
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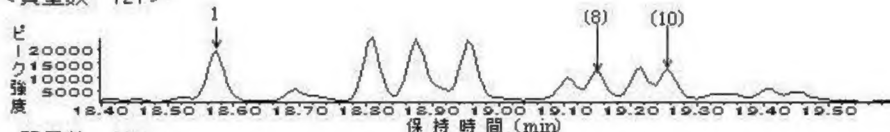
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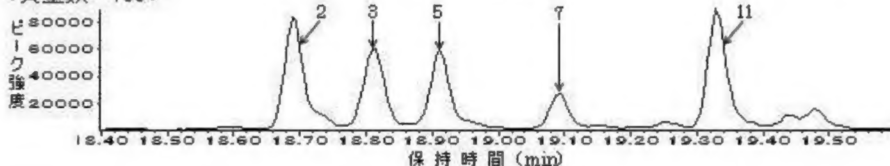
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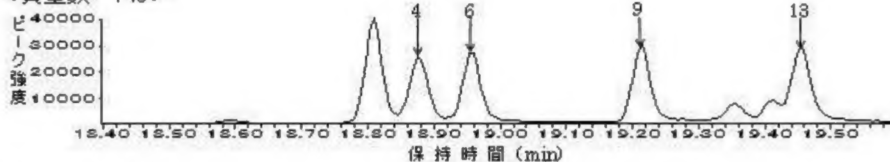
別図　キャピラリーカラムにＤＢ－５ＭＳ(長さ30m　内径0.25mm　膜厚0.25μm)を用いたときのクロマトグラム

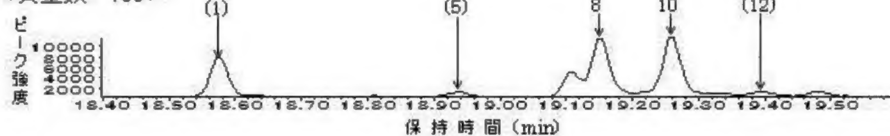


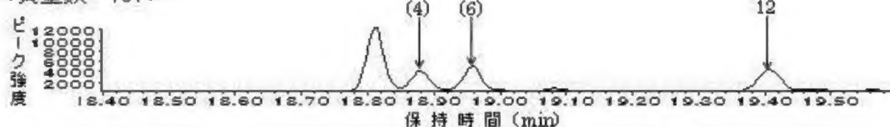


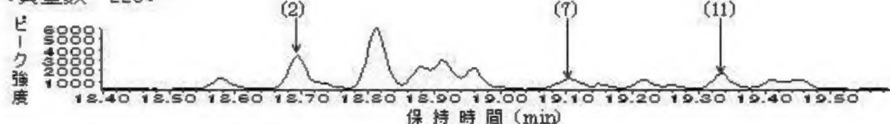












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